

Cross-Sectional Anatomy: Abdomen and Pelvis

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Educational Objectives

- Learn to navigate axial slices
- Focus on Genitourinary
 - KUB (kidney - ureter - bladder)
- Differences between male and female
- Basic locations
 - Bladder
 - Prostate or Uterus
 - Rectum
- Major joints
 - Sacroiliac
 - Hip
 - Pubic symphysis



There is a Lot to Remember

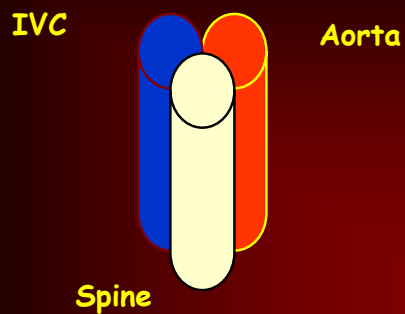


Three Cylinders

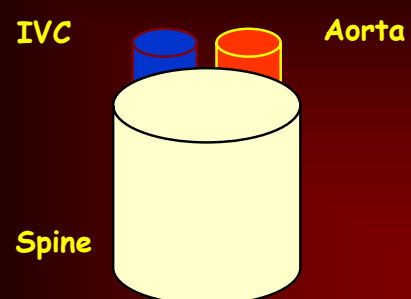
- Spine
- Abdominal Aorta
- Inferior Vena Cava



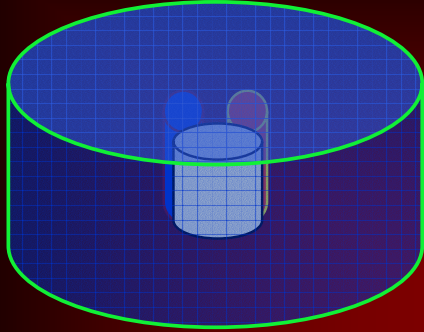
Three Cylinders



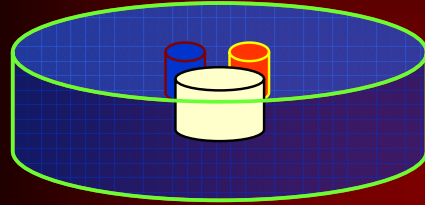
Three Cylinders



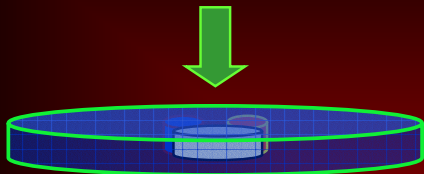
Three Cylinders and Abdomen



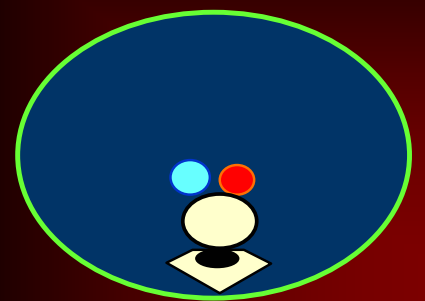
Three Cylinders and Abdomen



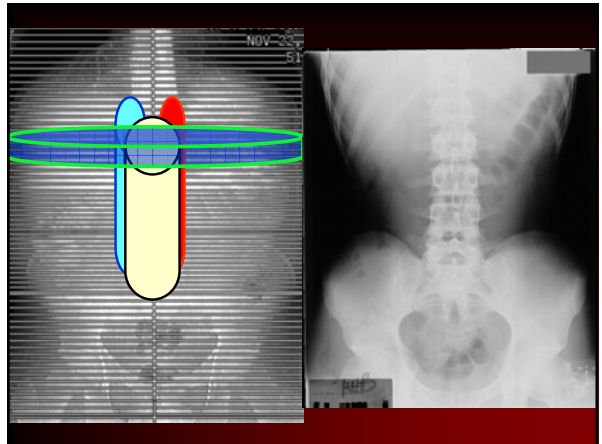
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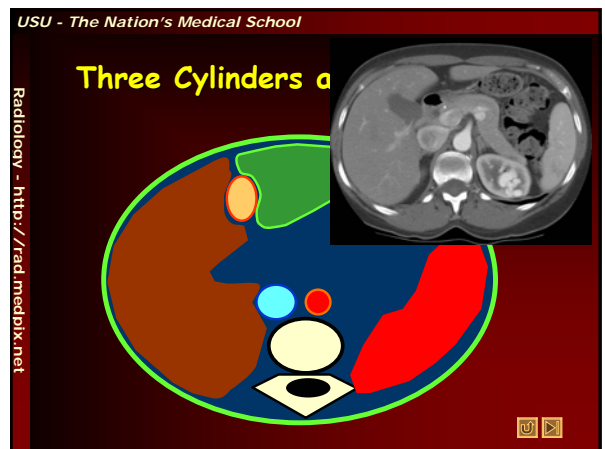
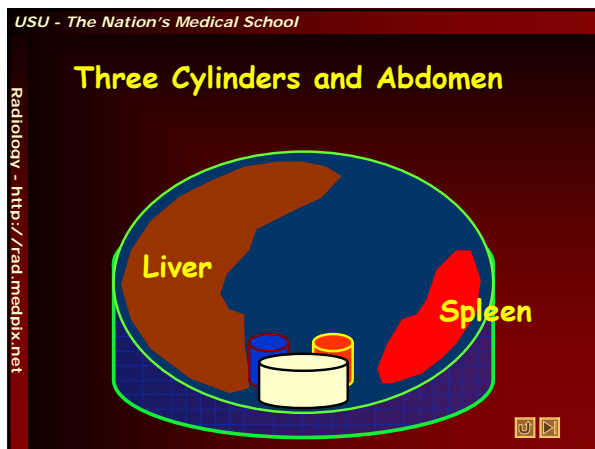
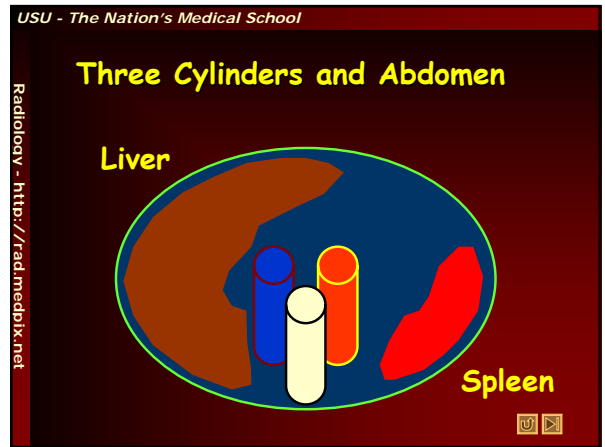
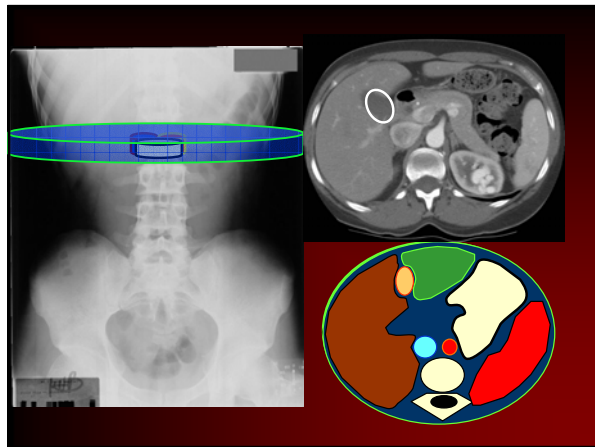
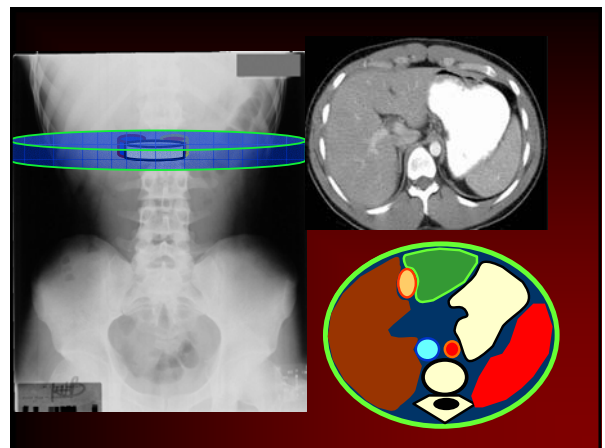
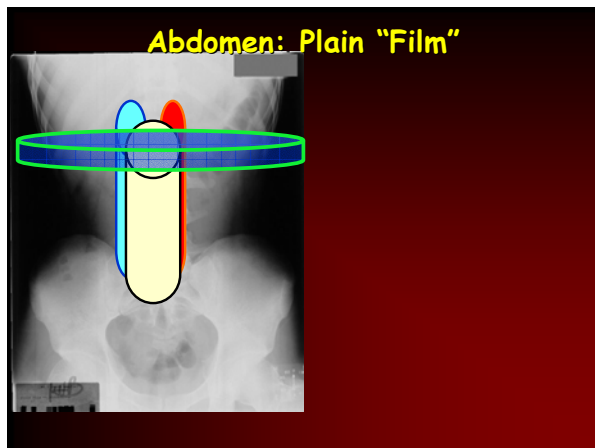


Three Cylinders and Abdomen



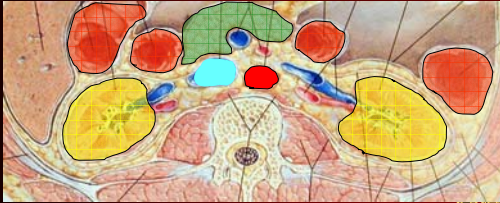
Abdomen: Plain "Film"



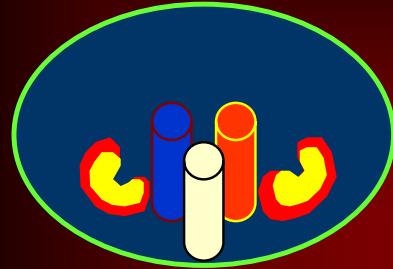


Retroperitoneum: Contents

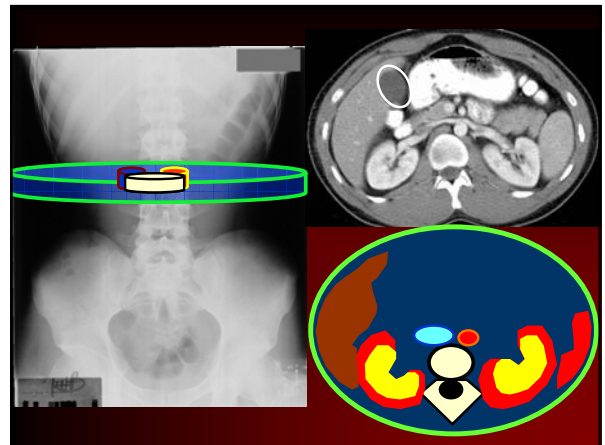
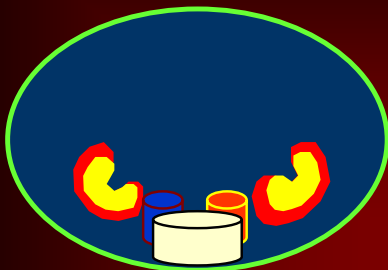
- Kidneys
- Adrenal glands
- Aorta and IVC
- Lymph nodes
- Pancreas
- Duodenum
- Colon(Asc + Desc)
- Fat



Kidneys

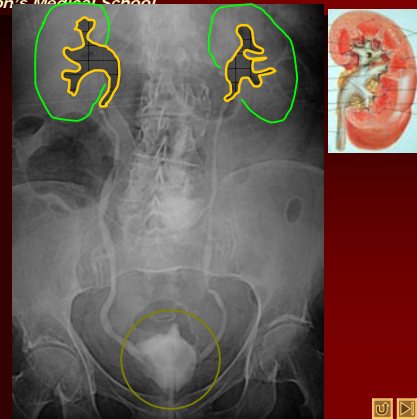


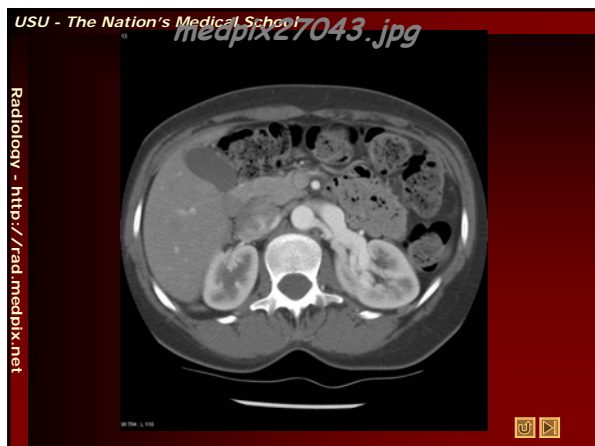
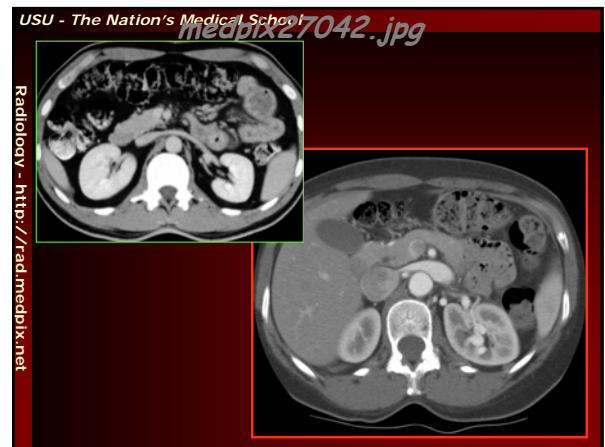
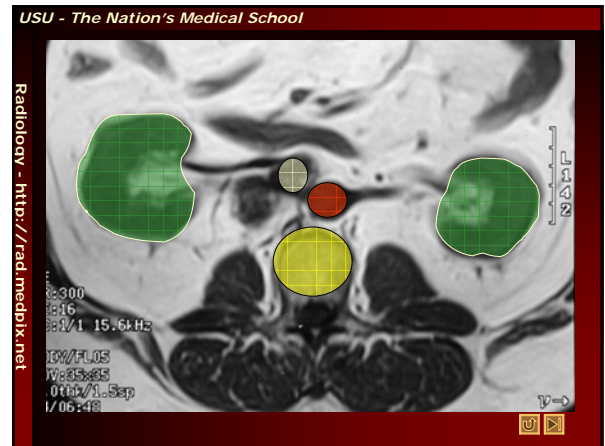
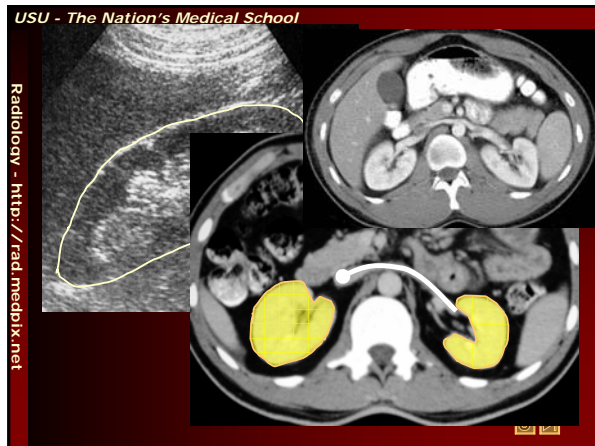
Kidneys



The Kidneys

- Morphology
- Physiology
- Pathology

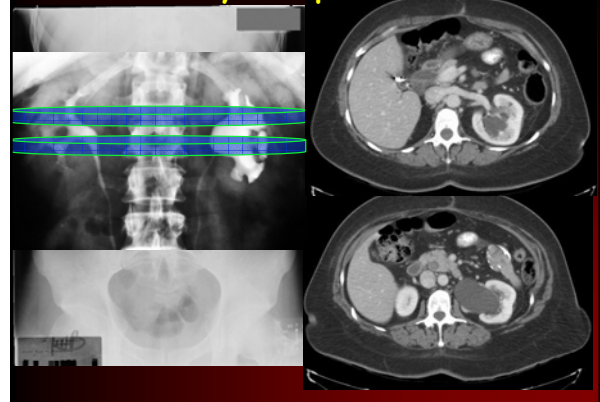




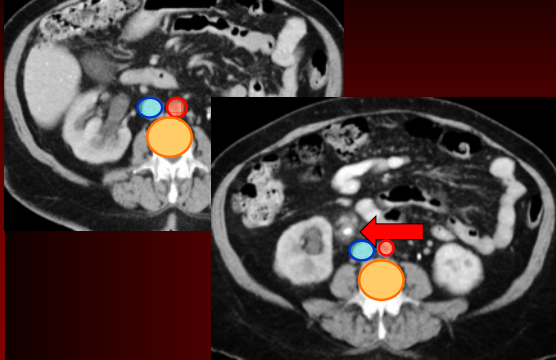
Intravenous Pyelogram



Hydronephrosis

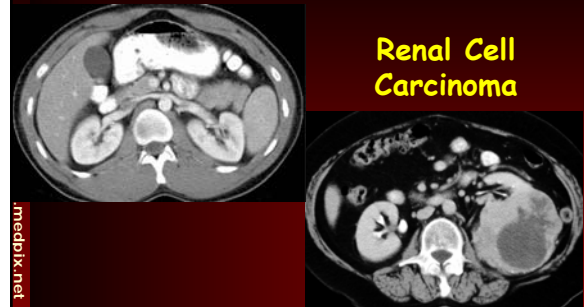


Hematuria and Flank Pain



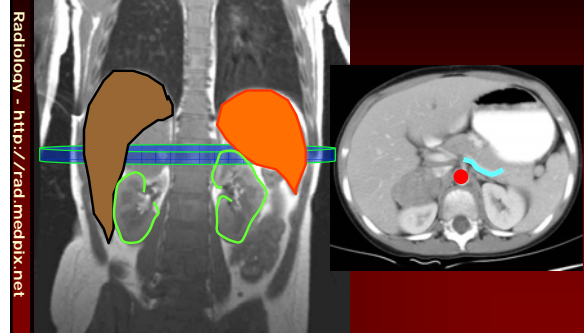
Pt w/hematuria

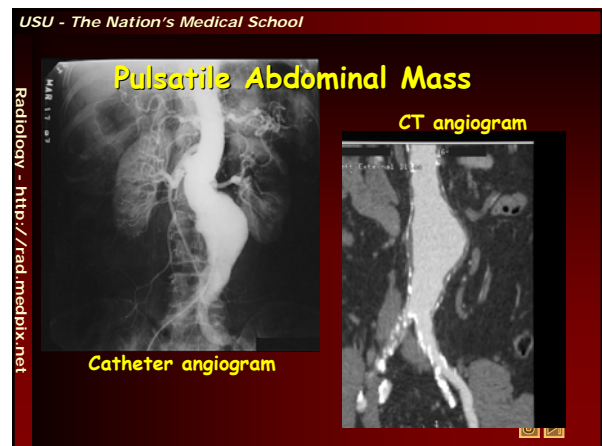
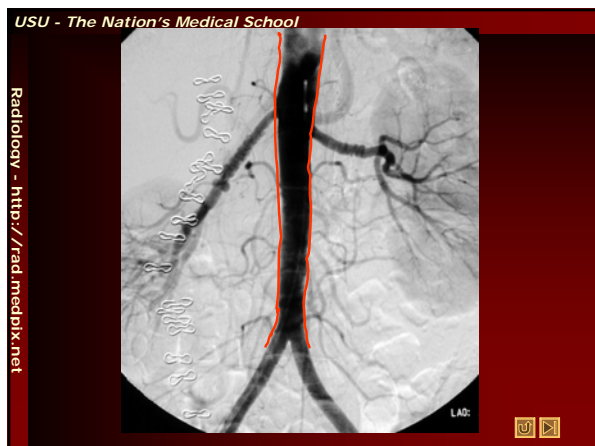
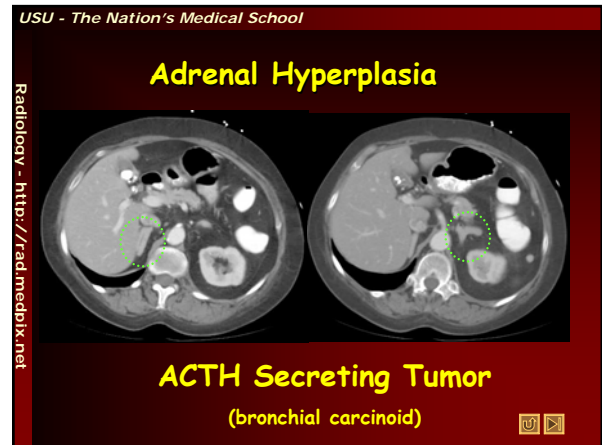
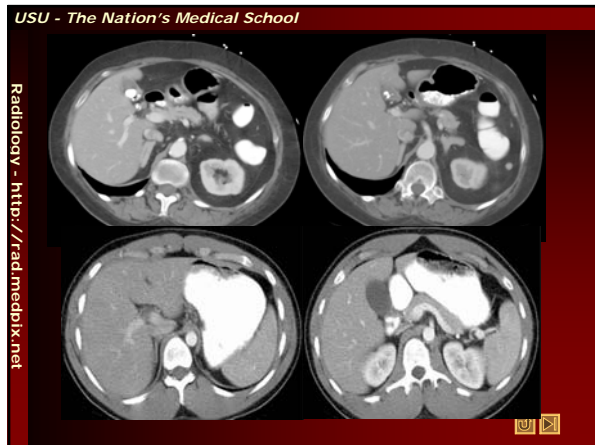
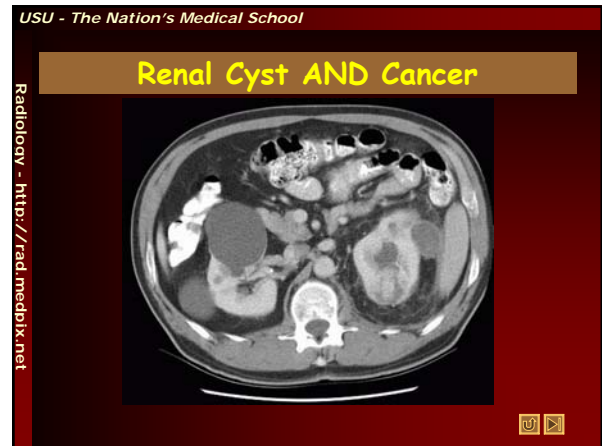
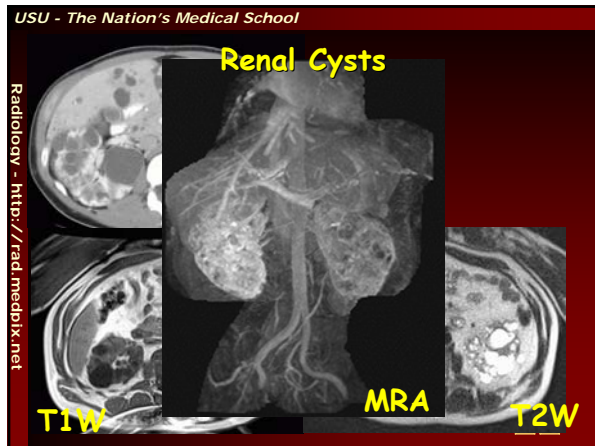
Renal Cell Carcinoma

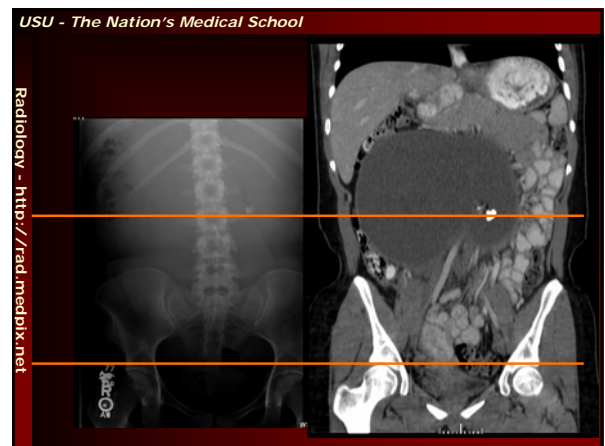
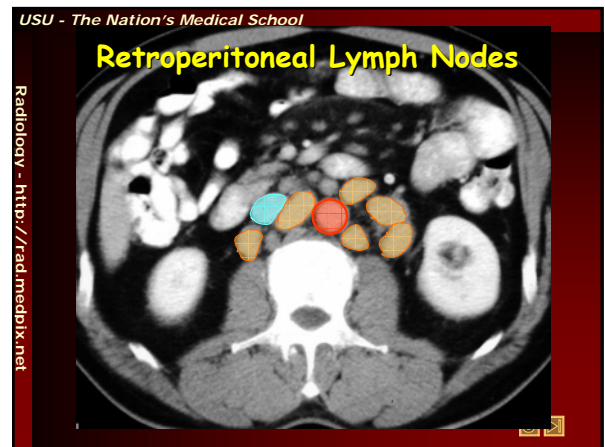
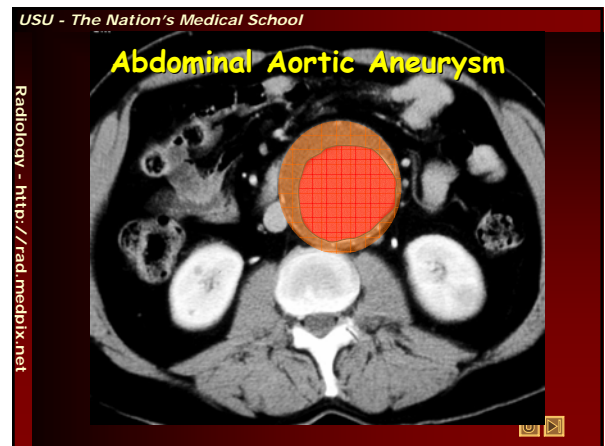
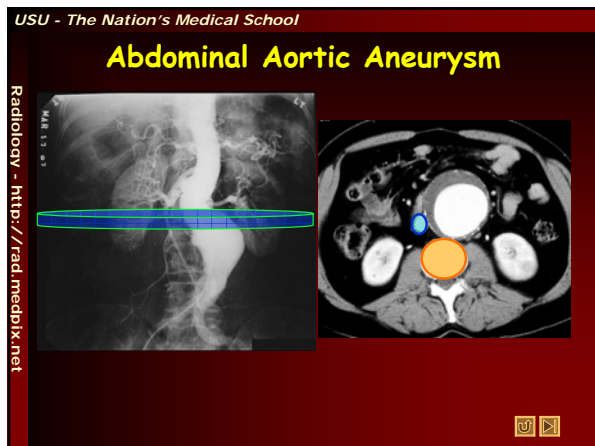


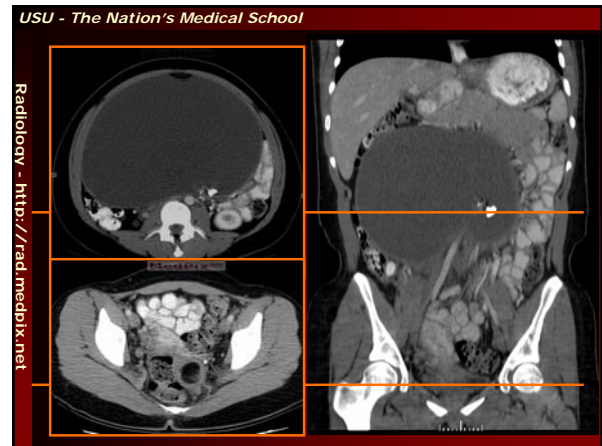
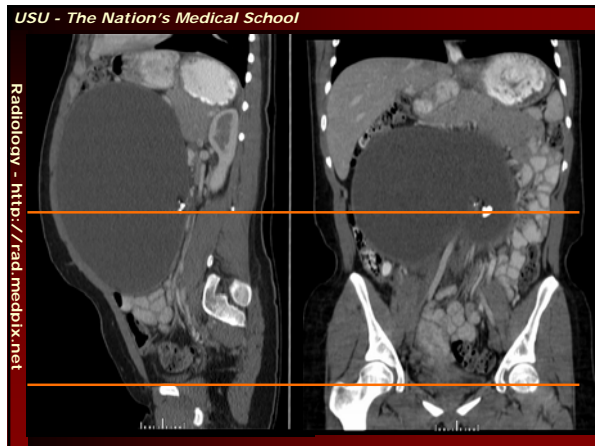
Hypertension

Adrenal Mass









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Pelvic Structures

- Bone
- Genitourinary
- Gastrointestinal
- Vascular and Nervous System

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Pelvic Structures

- Bone
 - Axial - Sacrum and coccyx
 - Iliac, ischium, pubis
- Genitourinary
- Gastrointestinal
- Vascular and Nervous System

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Pelvic Structures

- Bone
- Genitourinary
 - Ureters and Bladder
 - Prostate, seminal vesicle, testis, penis
 - Uterus, ovary, fallopian tube, vagina
- Gastrointestinal
- Vascular and Nervous System

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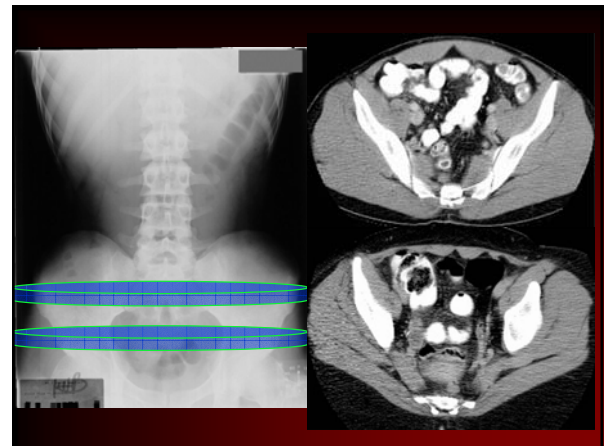
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Pelvic Structures

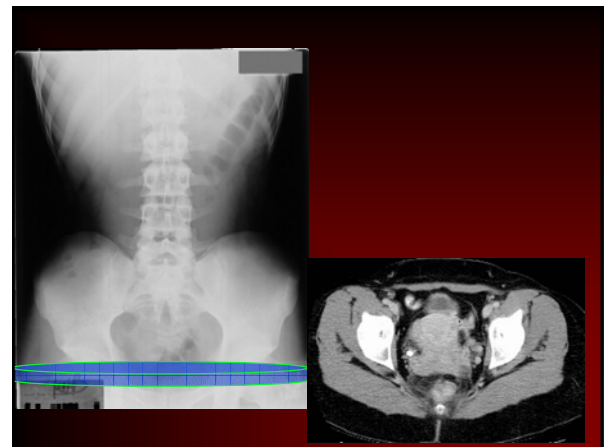
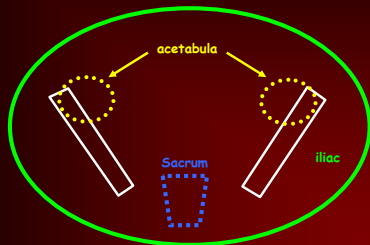
- Bone
- Genitourinary
- Gastrointestinal
 - Illium, cecum, appendix
 - Sigmoid colon and rectum
- Vascular and Nervous System

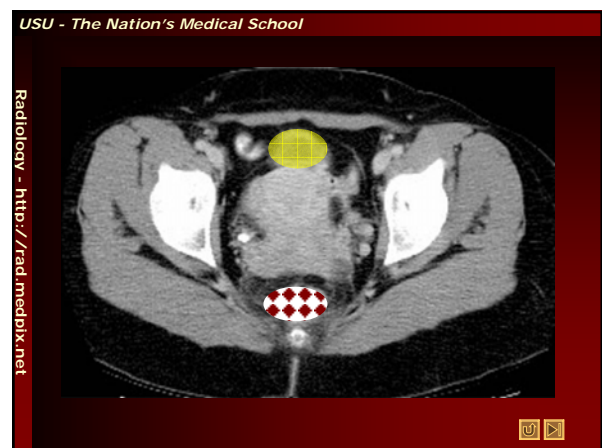
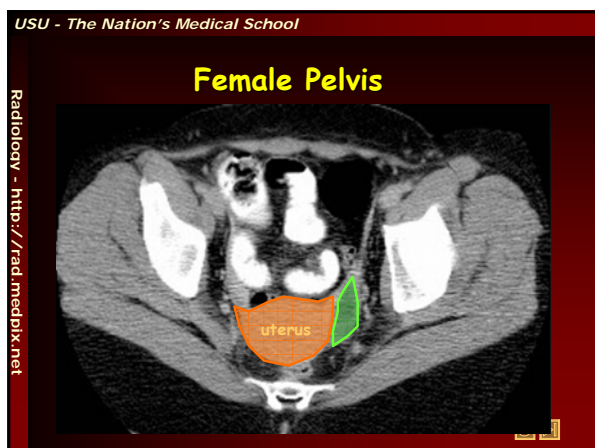
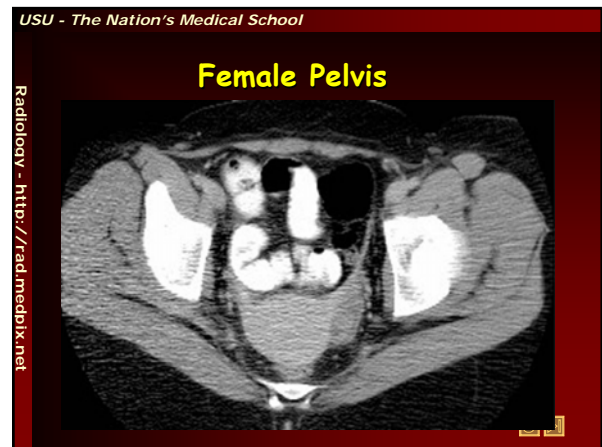
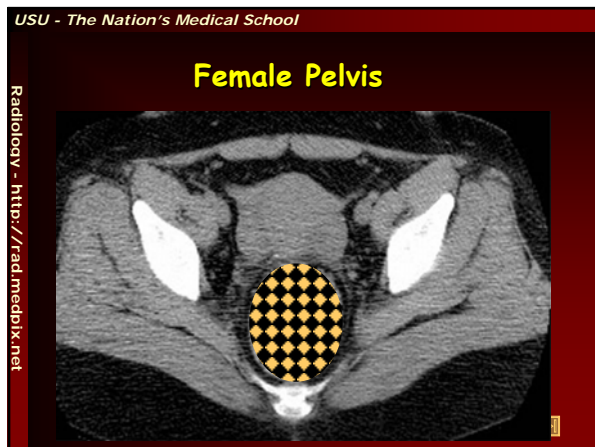
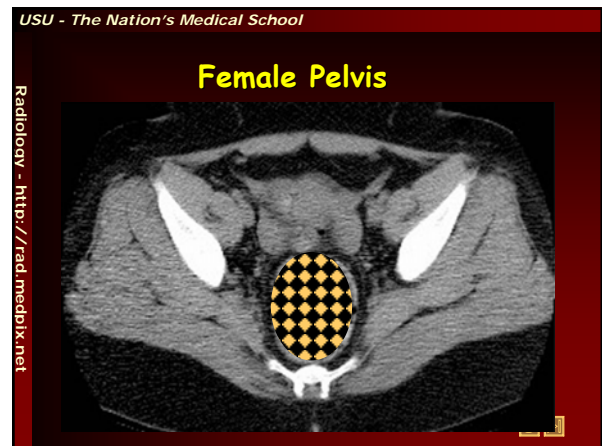
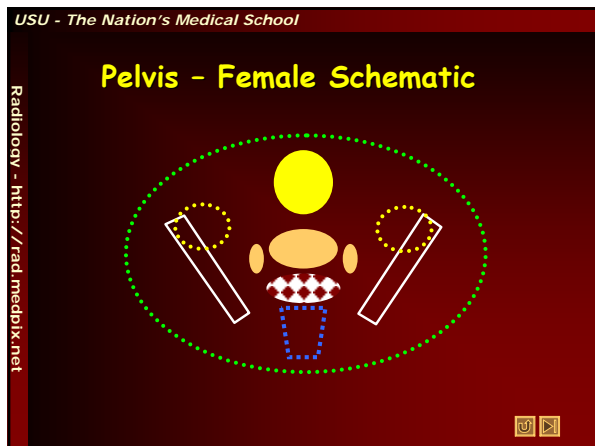
Pelvic Structures

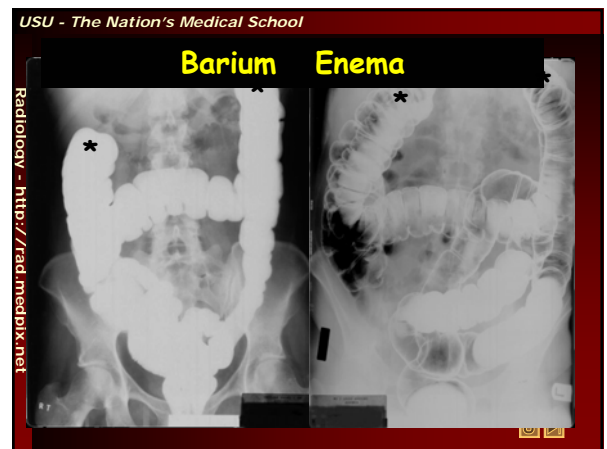
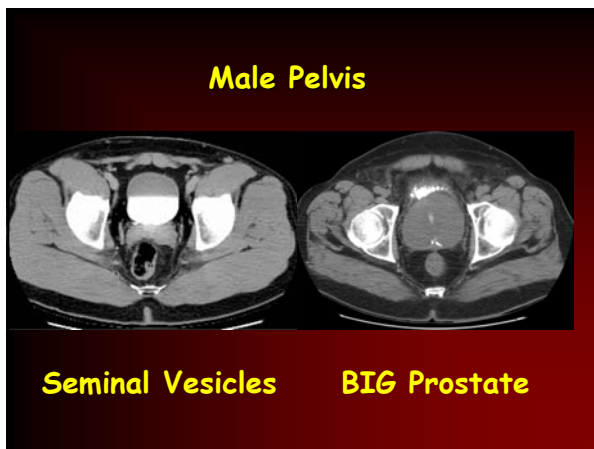
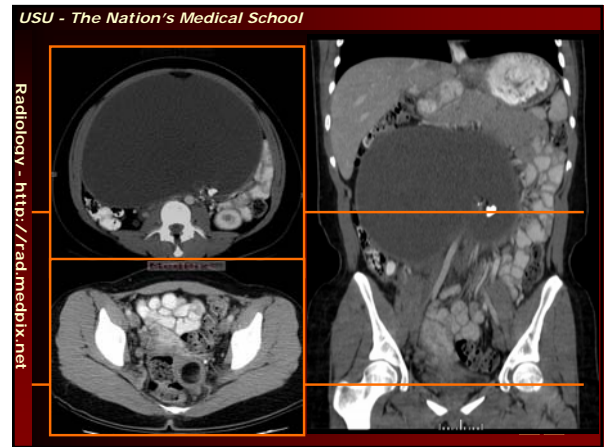
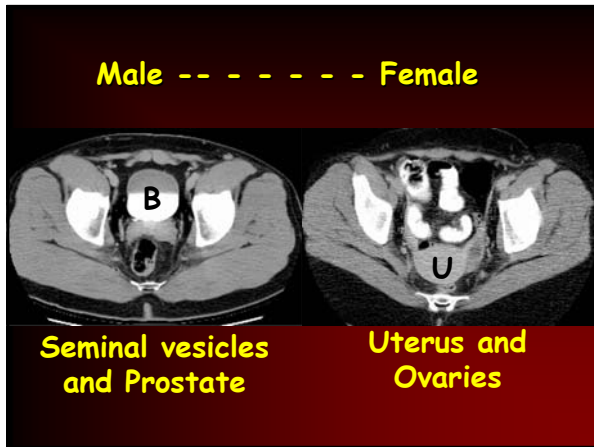
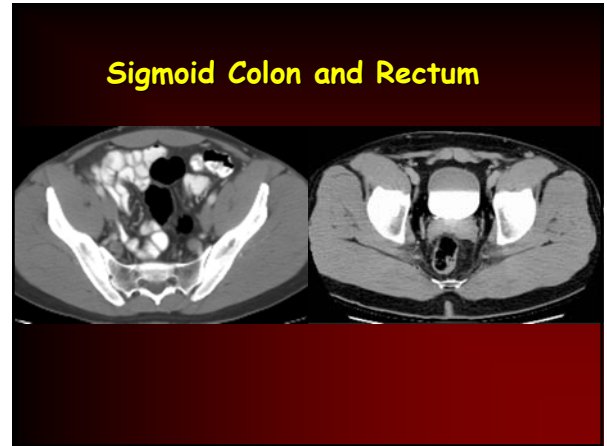
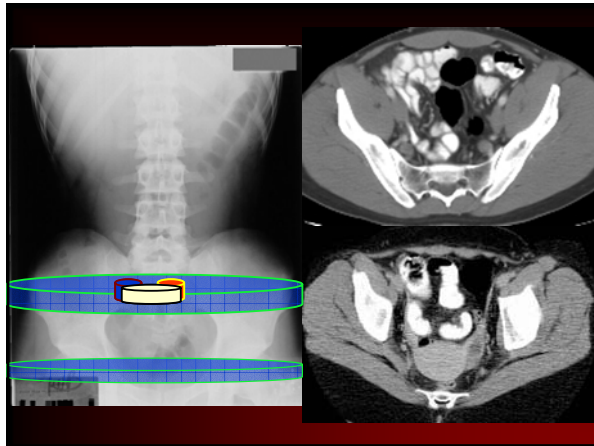
- Bone
- Genitourinary
- Gastrointestinal
- Vascular and Nervous System
 - Iliac vessels
 - Sacral plexus and sciatic nerve
 - Femoral vessels



Pelvis - Schematic

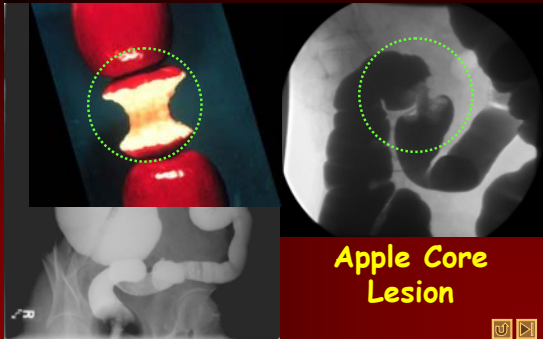






Constipation and Blood in Stool

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Apple Core Lesion



Malrotation

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Malrotation

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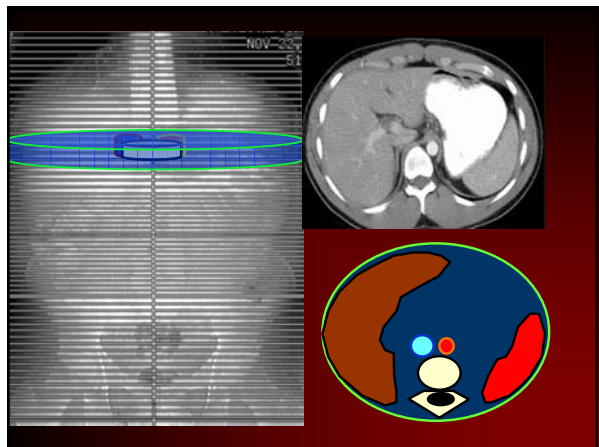
Identify Foreign Bodies

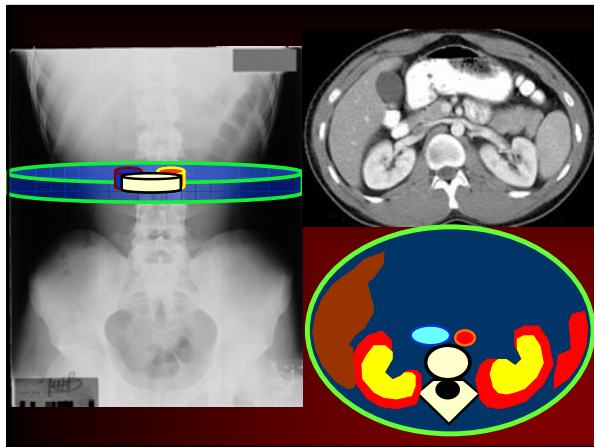
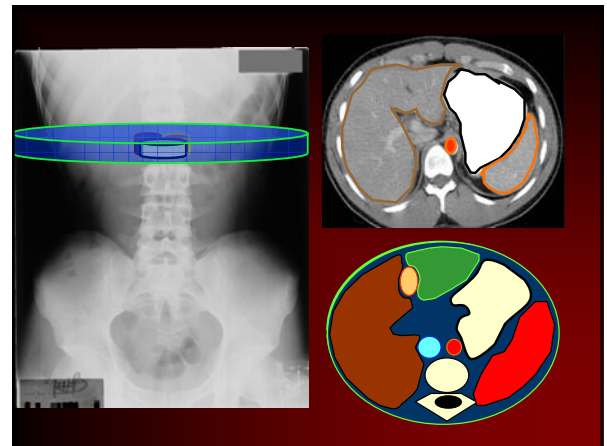
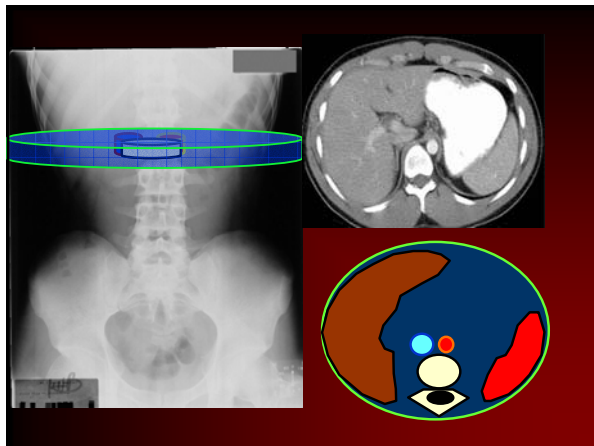
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Summary and Review

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So, When you look at Scans

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Ask Questions!

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Happy Thanksgiving !!

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WE'D LOVE TO STAY FOR DINNER, BUT THERE'S A SALE AT K-MART